

AMENDMENTS TO THE CLAIMS:

1. (Original) A microporous polyethylene film, comprising a blend that comprises a high density polyethylene copolymer which has a melt index (MI) of 0.1 to 100 and a content of an α -olefin unit with 3 or more carbon atoms of 0.1 to 1% by mole; and a high density polyethylene which has a viscosity average molecular weight (Mv) of at least 500000 to 5000000, wherein the blend has an Mv of 300000 to 4000000 and a content of an α -olefin unit with 3 or more carbon atoms of 0.01 to 1% by mole.
2. (Withdrawn) A microporous polyethylene film, comprising a blend that comprises a high density polyethylene copolymer which has a melt index (MI) of 0.1 to 100 and a content of an α -olefin unit with 3 or more carbon atoms of 0.1 to 1% by mole; and a homopolyethylene which has an Mv of at least 500000 to 5000000, wherein the blend has an Mv of 300000 to 4000000 and has a content of an α -olefin unit with 3 or more carbon atoms of 0.01 to 1% by mole.
3. (Withdrawn) A microporous polyethylene film, comprising a blend that comprises a high density polyethylene copolymer comprising an α -olefin unit with 3 or more carbon atoms, and a high density polyethylene which has an Mv of at least 500000 to 5000000, characterized in that the microporous polyethylene film has a weight fraction measured by GPC of a component having a molecular weight of 1000000 or more of 1 to 40%, and a weight fraction measured by GPC of a component having a molecular weight of 10000 or less of 1 to 40%, the component having a molecular weight of 10000 or less has a content of an α -olefin unit with 3 or more carbon atoms of 0.1 to 1% by mole, and the blend has an Mv of 300000 to 4000000, and a content of an α -olefin unit with 3 or more carbon atoms of 0.01 to 1% by mole.

4. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 3~~claim 1, wherein the α -olefin is propylene.

5. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 4~~claim 1, wherein the polyethylene having an M_v of 500000 to 5000000 is a
blend of two or three kinds selected from the following polyethylenes (A), (B) and (C):

(A) the polyethylene having an M_v of 1500000 or more and less than 5000000;

(B) the polyethylene having an M_v of 600000 or more and less than 1500000; and

(C) the polyethylene having an M_v of 250000 or more and less than 600000.

6. (Withdrawn) The microporous polyethylene film according to any one of claims 1
to 4, wherein the polyethylene having an M_v of 500000 to 5000000 is an ultrahigh
molecular weight polyethylene having an M_v of 1500000 or more.

7. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 6~~claim 1, having a film rupture temperature of 150°C or higher.

8. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 7~~claim 1, having a shrinkage force at 150°C of 2N or less.

9. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 8~~claim 1, having a fusing temperature of 140°C or lower.

10. (Currently Amended) The microporous polyethylene film according to ~~any one of~~
~~claims 1 to 9~~claim 1, having a thickness 5 to 24 μ m.

11. (Currently Amended) The microporous polyethylene film according to ~~any one of claims 1 to 10~~claim 1, having a porosity of 30 to 70%.
12. (Currently Amended) The microporous polyethylene film according to ~~any one of claims 1 to 11~~claim 1, having an air permeability of 100 seconds or more and 600 seconds or less.
13. (Original) A battery separator, comprising a microporous film according to any one of claims 1 to 12.
14. (Previously presented) A microporous polyethylene film according to claim 1, which has a weight fraction measured by GPC of a component having a molecular weight of 1000000 or more of 1 to 40%, and a weight fraction measured by GPC of a component having a molecular weight of 10000 or less of 1 to 40%, the component having a molecular weight of 10000 or less has a content of an α -olefin unit with 3 or more carbon atoms of 0.1 to 1% by mole.
15. (New) The microporous polyethylene film according to claim 14, wherein the α -olefin is propylene.
16. (New) The microporous polyethylene film according to claim 14, wherein the polyethylene having an M_v of 500000 to 5000000 is a blend of two or three kinds selected from the following polyethylenes (A), (B) and (C):
 - (A) the polyethylene having an M_v of 1500000 or more and less than 5000000;
 - (B) the polyethylene having an M_v of 600000 or more and less than 1500000; and

(C) the polyethylene having an M_v of 250000 or more and less than 600000.

17. (New) The microporous polyethylene film according to claim 14, wherein the polyethylene having an M_v of 500000 to 5000000 is an ultrahigh molecular weight polyethylene having an M_v of 1500000 or more.

18. (New) The microporous polyethylene film according to claim 14, having a film rupture temperature of 150°C or higher.

19. (New) The microporous polyethylene film according to claim 14, having a shrinkage force at 150°C of 2N or less.

20. (New) The microporous polyethylene film according to claim 14, having a fusing temperature of 140°C or lower.

21. (New) The microporous polyethylene film according to claim 14, having a thickness 5 to 24 µm.

22. (New) The microporous polyethylene film according to claim 14, having a porosity of 30 to 70%.

23. (New) The microporous polyethylene film according to claim 14, having an air permeability of 100 seconds or more and 600 seconds or less.

24. (New) A battery separator, comprising a microporous film according to any one of claims 14 to 23.